

I claim the following:

1. A paint ball gun cleaning device for cleaning an inside barrel of a paint ball gun,

the cleaning device comprising:

a. An outer tube having a first end and a second end, wherein the diameter of

5 the outer tube is configured to permit the outer tube to be removably
inserted along the length of the inside barrel of the paint ball gun;

b. An inner tube having a first end and a second end, wherein the diameter of
the inner tube is configured to permit the inner tube to be movably
inserted along the length of the outer barrel;

10 c. A first compressible cleaning tip having a smaller diameter than the inside
barrel, and further having at least a non-compressed state and a
compressed state, the non-compressed state having a corresponding non-
compressed diameter, and the compressed state having a corresponding
compressed diameter, wherein the compressed diameter is greater than the
15 non-compressed diameter; and

d. A cleaning tip compression member having a smaller diameter than the
inside barrel, and further having a first end and a second end, wherein the
second end of the cleaning tip compression member is in communication
with the first end of the inner tube and constrains the position of the first
20 compressible cleaning tip in the proximity of the first end of the outer
tube, the cleaning tip compression member is further configured to be in
communication with the side of first compressible cleaning tip that is
distal from the inner tube, and may be actuated to induce a compression

state change in the first compressible cleaning tip when the inner tube is moved relative to the outer tube, thereby selectively inducing the non-compressed state and the compressed state.

2. The paint ball gun cleaning device of claim 1, further comprising:

- 5 e. A cleaning tip adaptor member having a first end and a second end, wherein the first end of the cleaning tip adaptor member is in communication with the second end of the inner tube; and
- f. A second compressible cleaning tip for cleaning the inside barrel, which second compressible cleaning tip is in communication the second end of
- 10 the cleaning tip adaptor member.

3. The paint ball gun cleaning device of claim 2, further comprising:

- A removable protective sleeve sufficiently covering the cleaning tip adaptor member to substantially prevent harmful contact with the inside barrel and to provide some degree of rigid support between the cleaning tip adaptor
- 15 member and the second compressible cleaning tip.

4. The paint ball gun cleaning device of claim 3, further comprising a lanyard that is configured to secure the outer tube to a user.

5. The paint ball gun cleaning device of claim 2, wherein the second compressible cleaning tip is a flag or a cotton towel.

- 20 6. The paint ball gun cleaning device of claim 2, wherein the second end of the cleaning tip adaptor member is configured to adequately secure a flag or a cotton towel when used for cleaning the inside barrel.

7. The paint ball gun cleaning device of claim 1, wherein the outer tube and the inner tube have at least one flexible but sufficiently rigid section permitting the paint ball gun cleaning device to flexibly fold but otherwise be stiff enough to be pushed through the inside barrel when not folded.
- 5 8. The paint ball gun cleaning device of claim 7, where in at least one inner tube section corresponding to the at least one flexible section of the outer tube is replaced with a monofilament line that connects the inner tube sections not substantially corresponding to the flexible outer tube section.
- 10 9. The paint ball gun cleaning device of claim 1, wherein the first compressible cleaning tip is a spherical rubber ball.
10. The paint ball gun cleaning device of claim 1, wherein the outer tube and inner tube are made of a malleable material that may be cut to an arbitrary length using common cutting tools.
11. The paint ball gun cleaning device of claim 10, wherein the malleable material is plastic.
- 15 12. A method to clean an inside barrel of a paint ball gun, the cleaning method comprising the following steps:
- a. inserting into the inside barrel a compressible cleaning tip having at least a non-compressed state and a compressed state, the non-compressed state having a corresponding non-compressed diameter that is less than the diameter of the inside barrel, and compressed state having a corresponding compressed diameter, wherein the compressed diameter is greater than the non-compressed diameter and at least equal to the diameter of the inside
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barrel, whereby the compressible cleaning tip is set to the non-compressed diameter while being inserting into the inside barrel;

b. halting the insertion of the compressible cleaning tip and thereafter setting the compressible cleaning tip to the compressed diameter; and

5 c. retracting the compressible cleaning tip;

13. The inside barrel cleaning method of claim 12, wherein the compressible cleaning tip is set into the compressed state by applying forces onto the compressible cleaning tip, the forces being configured to sufficiently compresses the compressible cleaning tip in a direction substantially parallel to a lengthwise axis of the inside barrel, thereby causing the diameter of the compressible cleaning tip to sufficiently increase in a direction substantially perpendicular to said axis to make contact between the compressible cleaning tip and the inside barrel.

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